PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 440940/PALL	FOR FURTHER see Form PCT/ISA/220 ACTION as well as, where applicable, item 5 below.					
International application No. PCT/US04/28977	ternational application No. International filing date (day/month/year) (Earliest) Priority Date (day/month/year)					
Applicant PALL CORPORATION						
This international search report has been according to Article 18. A copy is being	prepared by this International Searching A transmitted to the International Bureau.	uthority and is transmitted to the applicant				
This international search report consists It is also accompanied	of a total of sheets. I by a copy of each prior art document cited	in this report.				
Basis of the Report a. With regard to the language, the language in which it was filed, un	international search was carried out on the ba nless otherwise indicated under this item.	sis of the international application in the				
to this Authority	(Rule 23.1(b)).	lation of the international application furnished				
b. With regard to any nucleoti	de and/or amino acid sequence disclosed in	the international application, see Box No. I.				
2. Certain claims were found	unsearchable (See Box No. II)					
3. Unity of invention is lacking4. With regard to the title,	g (See Box No. III)					
the text is approved as subm	itted by the applicant.					
the text has been established	by this Authority to read as follows:	•				
•						
	. · · · · · · · · · · · · · · · · · · ·					
	•					
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·	•	_				
		·				
5. With regard to the abstract,						
the text is approved as subm	itted by the applicant.					
the text has been established may, within one month from	l, according to Rule 38.2(b), by this Authority the date of mailing of this international searce	as it appears in Box No. IV. The applicant the report, submit comments to this Authority.				
6. With regard to the drawings,						
Fig. 10 Fig. 1						
	as suggested by the applicant.					
	as selected by this Authority, because the applicant failed to suggest a figure.					
as selected by this Authority, because this figure better characterizes the invention.						
b none of the figures is to be p						

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/28977

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)			
This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:			
Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:			
Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:			
3. Claims Nos.: 5-14,19-26 and 32-36 because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).			
Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)			
This International Searching Authority found multiple inventions in this international application, as follows:			
1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.			
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.			
3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:			
4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims, it is covered by claims Nos.:			
Remark on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.			

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/28977

CT 4	COLETON OF CHIPTECT VA TEED			
	SSIFICATION OF SUBJECT MATTER		•	
IPC(7)	: C08F 8/32; C08J 5/10	•	•	
US CL	: 521/28, 29; 525/375, 380, 381, 382			
	International Patent Classification (IPC) or to both nat	ional classification and IPC		
B. FIEL	DS SEARCHED	<u></u>		
Minimum do	cumentation searched (classification system followed b	v classification symbols)	· · · · · · · · · · · · · · · · ·	
	21/28, 29; 525/375, 380, 381, 382	y classification symbols)	,	
0.5 52	21/20, 27, 323/3/3, 300, 301, 302	•	•	
	<u>-</u>			
Documentati	on searched other than minimum documentation to the	extent that such documents are included in	the fields searched	
2004	on sometimes office than highling in documentation to the	extent that such documents are included in	the fields searched	
	•			
Eleatronia da	to hope consulted division the intermediated according	-64-4-1- 1 1 2 11	, , ,	
Liectionic da	ta base consulted during the international search (name	of data base and, where practicable, search	in terms used)	
-				
C. DOC	UMENTS CONSIDERED TO BE RELEVANT	· · · · · · · · · · · · · · · · · · ·		
Category *	Citation of document, with indication, where a	opropriate of the relevant passages	Relevant to claim No.	
A		ppropriate, of the relevant passages		
^	US 6,200,481 A (NAMBU et al) 13 March 2001		1-4, 15-18, 27-31 and	
			37	
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F	demonstrate to the district of the control of the c			
	documents are listed in the continuation of Box C.	See patent family annex.	. •	
• s	pecial categories of cited documents:	"T" later document published after the inte		
"A" document	defining the general state of the art which is not considered to be of	date and not in conflict with the applic principle or theory underlying the inve		
	relevance	principle of dieory underlying the inve		
"E" earlier and		"X" document of particular relevance; the		
E camer ap	plication or patent published on or after the international filing date	considered novel or cannot be conside when the document is taken alone	red to involve an inventive step	
"L" document	which r. ay throw doubts on priority claim(s) or which is cited to	when the document is taken atom		
establish (specified)	the publication date of another citation or other special reason (as	"Y" document of particular relevance; the		
specified)		considered to involve an inventive step		
"O" document	referring to an oral disclosure, use, exhibition or other means	with one or more other such document obvious to a person skilled in the art	er seem commination definit	
"P" door-	muhlished minera ahe international filtration 1 and 1 and 1			
"P" document published prior to the international filing date but later than the "&" document member of the same patent family priority date claimed				
Date of the actual completion of the international search Date of mailing of the international search report				
15 August 2005 (15.08.2005) 13 OCT 2005				
Name and mailing address of the ISA/US Authorized officer				
Mail Stop PCT, Attn: ISA/US				
Commissioner for Patents Sernard Lipman				
P.O. Box 1450				
Alexandria, Virginia 22313-1450 Telephone No. 703-308-1661				
racsimile No.	. (703) 305-3230			

Form PCT/ISA/210 (second sheet) (January 2004)

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUT	HORITY				
To: JEREMY JAY 700 THIRTEENTH STREET, N.W.			PCT		
SUITE 300 WASHINGTON, DC 20005		WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY			
		٠,	(PCT Rule 43bis.1)		
,		Date of mailing (day/month/year)	1 3 OCT 2005		
Applicant's or agent's file reference		FOR FURTHER	ACTION See paragraph 2 below		
440940/PALL International application No.	Transpire 161				
	International filing date	,	Priority date (day/month/year)		
PCT/US04/28977 International Patent Classification (IPC)	07 September 2004 (07.0 or both national classificat	09.2004) ion and IPC	9.2004) 05 September 2003 (05.09.2003)		
IPC(7): C08F 8/32; C08J 5/10 and US C					
PALL CORPORATION			-		
1 77					
1. This opinion contains indications re	lating to the following item	S:			
Box No. I Basis of th	e opinion				
Box No. II Priority			•		
Box No. III Non-estab	ishment of opinion with rep	gard to novelty, inver	ntive step and industrial applicability		
	ity of invention				
Box No. V Reasoned applicabili	statement under Rule 43bis. ty; citations and explanation	1(a)(i) with regard to	novelty, inventive step or industrial		
	cuments cited				
Box No. VII Certain de	fects in the international app	olication			
· ·	servations on the internation				
2. FURTHER ACTION					
If a demand for international preling International Preliminary Examining	ng Authority ("IPEA") ex the IPEA and the chosen I	cept that this does IPEA has notified the	be considered to be a written opinion of the not apply where the applicant chooses an e International Bureau under Rule 66.1bis(b) red.		
of Form PCT/ISA/220 or before the	e appropriate, with amendi expiration of 22 months fro	nents before the ext	EA, the applicant is invited to submit to the piration of 3 months from the date of mailing whichever expires later.		
For further options, see Form PCT/I	SA/220.				
3. For further details, see notes to Form	PCT/ISA/220.				
Name and mailing address of the ISA/ U		Authorized officer			
Mail Stop PCT, Attn: ISA/US	•	Stand	ed.		
Commissioner for Patents P.O. Box 1450		Berhard Lipman	LV		
Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230		Telephone No. 70	3-308-1661		
orm PCT/ISA/237 (cover sheet) (January	2004)	I			

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/US04/28977

Box N	o. I Basis of this o	opinion						
1. With was f	regard to the languag	e indicated under	this item.				,	
	This opinion has be which is the langua	ge of a translation	furnished for the	purposes of inte	onginal lan emational se	guage into the tarch (under Rul	following lang les 12.3 and 2	guage, 3.1(b)).
2. With inven	regard to any nucleo tion, this opinion has	tide and/or amin been established	on the basis of:	disclosed in the	internationa	l application an	d necessary t	o the claimed
· a.	type of material		•	-				
	a sequence lis	sting	,	,				
	table(s) relate	ed to the sequence	listing					
b.	format of material			•	•			
· ·	in written for	mat					•	-
-	in computer r	readable form		:				
c.	time of filing/furnis	shing	•			•		· .
	— /	international appl	ication as filed.					
•	. filed together	with the internat	ional application i	n computer read	iable form.			
	furnished sub	sequently to this	Authority for the p	ourposes of search	ch.		·	· ·
		•						
3.	In addition, in the or furnished, the reapplication as filed	equired statements	s that the informa	tion in the subs	equent or a	dditional copies	ating thereto has is identical	as been filed to that in the
4. Additi	onal comments:				•	•		
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orm PCT	/ISA/237(Box No. I)	(January 2004)	-	· · · · · · · · · · · · · · · · · · ·				

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/US04/28977

Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

1.	The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non-obvious), or to be industrially applicable have not been examined in respect of:					
		the entire international application				
	\boxtimes	claims Nos. <u>5-14,19-26 and 32-36</u>				
	becau	se:				
		the said international application, or the said claim Nos relate to the following subject matter which does not require an international preliminary examination (specify):				
		the description, claims or drawings (indicate particular elements below) or said claims Nos. 5-14,19-26 and 32-36 are so unclear that no meaningful opinion could be formed (specify):				
		Claims are improper multiple dependent under PCT Rule 6.4(a).				
		the claims, or said claims Nos are so inadequately supported by the description that no meaningful opinion could be				
		formed.				
		no international search report has been established for said claims Nos				
	· 🔲	the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in Annex C of the Administrative Instructions in that:				
		the written form has not been furnished				
		the computer readable form does not comply with the standard has not been furnished				
		does not comply with the standard				
		the tables related to the nucleotide and/or amino acid sequence listing, if in computer readable form only, do not comply with the technical requirements provided for in Annex C-bis of the Administrative Instructions.				
		See Supplemental Box for further details.				

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US04/28977

Box No. V Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement Claims 1-4, 15-18, 27-31 and 37 YES Novelty (N) NO Claims NONE YES Claims 1-4, 15-18, 27-31 and 37 Inventive step (IS) Claims NONE NO Claims 1-4, 15-18, 27-31 and 37 YES Industrial applicability (IA) Claims NONE NO

2. Citations and explanations:

Claims 1-4, 15-18, 27-31 and 37 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest the protonated N-methyl-D-glucamine as the chelate groups on the polymer beads as claimed.

Claims 1-4, 15-18, 27-31 and 37 meet the criteria set out in PCT Article 33(4), and thus by the potential for removing As from compositions posseses industrial applicability because the subject matter claimed can be made or used in industry.